MULTI-PHOTON ENDOSCOPIC IMAGING SYSTEM ABSTRACT OF THE DISCLOSURE

An imaging system includes a pulsed laser, a pre-compensator for chromatic dispersion, a transmission optical fiber, and a GRIN lens. The pre-compensator chirps optical pulses received from the laser. The transmission optical fiber transports the chirped optical pulses from the pre-compensator. The GRIN lens receives the transported optical pulses from the transmission optical fiber. The GRIN lens has a wider optical core than the transmission optical fiber and substantially narrows the transported optical pulses received from the transmission optical fiber.

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